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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/079,530	02/22/2002	Chih-Peng Wu	BHT-3167-44	6424

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DOUGHERTY & TROXELL
SUITE 1404
5205 LEESBURG PIKE
FALLS CHURCH, VA 22041

EXAMINER

MOHANDESI, IRAJ A

ART UNIT	PAPER NUMBER
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2834

DATE MAILED: 04/24/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/079,530

Applicant(s)

WU, CHIH-PENG

Examiner

Iraj A Mohandesi

Art Unit

2834

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 22 February 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 22 February 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless —

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. **Claims 1,4-7,9-11,14-19** are rejected under 35 U.S.C. 102(b) as being anticipated by **Damron US patent 5,920,127**.

Damron'127 discloses a wind power generator (18) for vehicles (10. column 2, line 11, Fig. 1, 2) which have a pneumatic power source (column 2, line 12) comprising, an air vane set (14, column 2, line 13, Fig. 1, 2) having blades to receive the kinetic force of the pneumatic power source (air see Fig. 1, 2) to generate rotation thereof, a generator device (18 , column 2, line 18, Fig. 1, 2) coupling with the air vane set to rotate for generating inductive current (see Fig. 1, 23); and a rectifier (22, column 2, line 21, Fig. 2) electrically connecting the generator device for stabilizing the voltage of the inductive current and rectifying the inductive current for output, the pneumatic power source is air flow generated when the vehicles are moving (see Fig. 1, 2), the generator device inherently includes a stator and a rotor, the air vane set has a spindle (shaft 16, 26, Fig. 1, 2) coupled with the generator device and driven to generate inductive current in the generator device, the generator device is an AC and DC generator device (column 4, line 45), the air vane set includes a plurality of symmetrical blades (see Fig. 1), each blade having a selected installation angle and a surface curvature to allow air flow

to pass over and generate blade rotation about the center of the air vane set (Fig.1,2), the air vane set has blade cross section profiles to increase rotation speed of the air vane set and reduce noise (See 14, Fig. 2) the air vane set is selectively an axial flow type or a cross flow type (Fig.1,2), the rectifier and the, generator device are separated and electrically connected through an electric wire (See Fig.2 generator 18 is connected to rectifier 22 via a wire), the rectifier includes a control box (20 ,column 2,line 21, Fig.2) which has a device for adjusting output electricity (20 ,Fig.2) to meet electric requirements of car use electric devices under selected conditions, the rectifier further includes an electricity storage device (24 battery ,column 2,line 3 ,Fig.2) for storing the rectified electric current, the electricity storage device has connector for providing electricity (see the connection + and – on the battery 24 ,Fig.2).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims **8 is** rejected under 35 U.S.C. 103(a) as being unpatentable over

Damron'127 in view of **Cuneo US patent 5,586,741**.

Damron'127 discloses a wind power generator (18) for vehicles (10 .column 2 ,line 11, Fig.1,2) which have a pneumatic power source (column 2,line 12) comprising, an air vane set(14,column 2,line 13, Fig.1,2) having blades to receive the kinetic force of the

pneumatic power source(air see Fig.1,2) to generate rotation thereof, a generator device (18 ,column 2,line 18,Fig.11,2) coupling with the air vane set to rotate for generating inductive current (see Fig.1,23); and a rectifier (22,column2,line 21,Fig.2) electrically connecting the generator device for stabilizing the voltage of the inductive current and rectifying the inductive current for output, pneumatic power source can be inherently an outlet of an air conditioner, or an outlet of a radiator, the pneumatic power source is air flow generated when the vehicles are moving (see Fig. 1,2),the generator device inherently includes a stator and a rotor, the air vane set has a spindle (shaft 16,26, Fig.1,2) coupled with the generator device and driven to generate inductive current in the generator device, the generator device is an AC and DC generator device (column4,line 45),the air vane set includes a plurality of symmetrical blades (see Fig.1), each blade having a selected installation angle and a surface curvature to allow air flow to pass over and generate blade rotation about the center of the air vane set (Fig.1,2), the air vane set has NACA blade cross section profiles to increase rotation speed of the air vane set and reduce noise (See 14,Fig. 2) the air vane set is selectively an axial flow type or a cross flow type (Fig.1,2),the rectifier and the, generator device are separated and electrically connected through an electric wire (See Fig. 2 generator 18 is connected to rectifier 22 via a wire),the rectifier includes a control box (20 ,column 2,line 21, Fig.2) which has a modulating device for adjusting output electricity to meet electric requirements of car use electric devices under selected conditions, the control box can inherently be mounted with a double –side adhesive tapes of Velcro strips the rectifier further includes an electricity storage device (24 battery ,column 2,line 3 ,Fig.2)

for storing the rectified electric current, the electricity storage device has connector for providing electricity (see the connection + and – on the battery 24 ,Fig.2).

However **Damron'127** teaches all limitation of the claimed invention except a mounting support object by means of a spring clip.

Cuneno,741 discloses a mounting support object by means of a spring clip (18,column ,line 53,fig.1,2) for the purpose of mounting the body on a holder).

Therefore it would have been obvious to one having skill in the art at the time the invention was made to combine **Damron'127** generator with a spring clip as taught by **Cuneno,741** for the purpose of mounting the generator on a holder.

5. **Claims 12 and 13** are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of **Damron'127** and **Cuneno, 741** as applied to **claims 1,4-11,14-16,18** and **-19** above, and further in view of **Matson US patent 5,951,257**.

However the combination of **Damron'127** and **Cuneno,741** fails to teach a protective frame with plurality of anchors.

Matson'256 discloses a service fan having a protective frame (30,column 6, line 17 Fig.1) is fixed with angular brace "anchors" (42, 62,column 5,line 42-50,Fig.1,2,3,4)

for the purpose of preventing the external objects from touching the rotating blades.

Therefore it would have been obvious to one having skill in the art at the time the invention was made to modify the combination of **Damron'127** and **Cuneno,741** with a protective frame fixed with angular brace "anchors" as taught by **Matson'256** for the purpose of preventing the external objects from touching the rotating blades.

6. **Claims 2 and 3** are rejected under 35 U.S.C. 103(a) as being unpatentable over **Damron'127** and **Cuneno,741** modified by **Matson'256** as applied to **claims 1,4-16,17 and 18** above, and further in view of **Yoshiharu JP patent Jp11217207**.

However the combination of **Damron'127** and **Cuneno,741** modified by **Matson'256** fail to teach the pneumatic power source is an out let of an air conditioner and out let of a radiator.

Yoshiharu JP patent Jp11217207 discloses a wind power generator having the pneumatic power source (12,see Fig.1) as an out let of an air conditioner and out let of a radiator (4, heat exchange, abstract ,line 29,Fig.1) for the purpose of a wind power source.

Therefore it would have been obvious to one having skill in the art at the time the invention was made to provide to the combination of **Damron'127** and **Cuneno,741** modified by **Matson'256** a pneumatic power source as an out let of an air conditioner and an out let of a radiator for the purpose of a wind power source.

7. Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over **Damron'127** and **Cuneno,741** modified by **Matson'256** and **Yoshiharu JP patent Jp1121720** as applied to **claims 1-16,18 and 19** above, and further in view of **Kitahata US patent 5,00,574**.

However the combination of **Damron'127** and **Cuneno,741** modified by **Matson'256** and **Yoshiharu JP patent Jp1121720** fails to teach a mounting element is an adhesive. **Kitahata'574** discloses a rectifier for an electrical machine with an element mounted with adhesive for the purpose of attaching the rectifier to the motor.

Therefore it would have been obvious to one having skill in the art at the time the invention was made to modify the combination of **Damron'127** and **Cuneno,741** modified by **Matson'256** and **Yoshiharu JP patent Jp1121720** with a mounting element with adhesive as taught by **Kitahata'574** for the purpose of attaching the rectifier to the motor.


Communication

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Iraj A Mohandesi whose telephone number is (703)305-3242. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on 703-308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703)872-9314 for regular communications and (703)872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)306-0377.

IM
April 18, 2003



IRAJ A. MOHANDESI
Examiner
Art Unit 2834